Human Immunology

Official Journal of the American Society
for Histocompatibility and Immunogenetics

Volume 39, 1994

Elsevier

Human Immunology

Aims and Scope

Human Immunology offers an exchange of information and ideas centering on the immunological system of humans. Pertinent information about the analogous systems of other vertebrates, including fish, birds, and mammals, may also be appropriate. The genes of the major histocompatibility complex and of T, B, and accessory cells and their products as regulatory molecules, disease markers, receptors, or targets are relevant topics. Subdisciplines such as neuroimmunology, immunopharmacology, and developmental and reproductive immunology are also considered insofar as they provide new insights. Limited space is available for reporting technological advances. Rapid publication of newsworthy items is provided by brief reports. Topics of general concern form the basis for editorials and seminar series.

Editor in Chief
D. Bernard Amos
Department of Immunology
Duke University Medical Center
Durham, North Carolina

American Editor
Jeffrey R. Dawson
Department of Immunology
Duke University Medical Center
Durham, North Carolina

European Editor
Jon J. van Rood
Afdeling Immunohaematologie
Academisch Ziekenhuis
Leiden, The Netherlands

Editorial Board

J. R. Batchelor, *London, England*
H. Betuel, *Lyon, France*
J. G. Bodmer, *London, England*
C. Brautbar, *Jerusalem, Israel*
F. M. Brodsky, *San Francisco, California*
J. D. Capra, *Dallas, Texas*
C. B. Carpenter, *Boston, Massachusetts*
D. J. Charron, *Paris, France*
F. H. J. Claas, *Leiden, The Netherlands*
P. Cresswell, *New Haven, Connecticut*
M. Crumpton, *London, England*
S. Curtoni, *Torino, Italy*
R. Dawkins, *Perth, Australia*
L. Degos, *Paris, France*
R. J. Duquesnoy, *Pittsburgh, Pennsylvania*
D. D. Eckels, *Milwaukee, Wisconsin*
C. P. Engelfriet, *Amsterdam, The Netherlands*
H. A. Erlich, *Emeryville, California*
G. B. Ferrara, *Genoa, Italy*
T. C. Fuller, *Salt Lake City, Utah*
J. Gorski, *Milwaukee, Wisconsin*
F. C. Grumet, *Stanford, California*
J. A. Hansen, *Seattle, Washington*
G. A. Hitman, *London, England*
C. K. Hurley, *Washington, DC*
W. R. Mayr, *Vienna, Austria*
A. McMichael, *Oxford, England*
T. Mohanakumar, *St. Louis, Missouri*
E. Moller, *Stockholm, Sweden*
H. T. Orr, *Minneapolis, Minnesota*
P. Parham, *Stanford, California*
P. A. Peterson, *La Jolla, California*
H. L. Ploegh, *Cambridge, Massachusetts*
S. Radka, *Tarrytown, New York*
N. Reinsmoen, *Minneapolis, Minnesota*
M. A. Robinson, *Rockville, Maryland*
G. E. Rodey, *Atlanta, Georgia*
P. Rubinstein, *New York, New York*
F. Sanfilippo, *Baltimore, Maryland*
T. Sasazuki, *Tokyo, Japan*
D. J. Schendel, *Munich, Germany*
M. Schlesinger, *Jerusalem, Israel*
B. D. Schwartz, *St. Louis, Missouri*
S. Serjeantson, *Canberra, Australia*
S. Shaw, *Bethesda, Maryland*
P. Stastny, *Dallas, Texas*
A. Svejgaard, *Copenhagen, Denmark*
E. Thorsby, *Oslo, Norway*
R. Tosi, *Rome, Italy*
J. Trowsdale, *London, England*
K. Tsuji, *Isehara, Japan*
J. A. (Falk) Wade, *Toronto, Canada*
L. R. Weitkamp, *Rochester, New York*
E. J. Yunis, *Boston, Massachusetts*

Human Immunology

Volume 39 Contents

Number 1, January 1994

GREGOR BEIN, DETLEF HAASE, JOACHIM SCHULT, THOMAS H. EIERMANN, and HOLGER KIRCHNER
Semiautomated HLA-DQB1 Typing by Fluorescent Dye Photometry of Amplified DNA on Microtiter Plates 1

M. RICHARD TIGHE, MARGARET A. HALL, ECTORI CARDI, ASARIA ASHKENAZI, JERRY S. LANCHBURY, and PAUL J. CICLITIRA
Associations Between Alleles of the Major Histocompatibility Complex-Encoded ABC Transporter Gene TAP2, HLA Class II Alleles, and Celiac Disease Susceptibility 9

DOMINIQUE EMILIE, ERIC LIOZON, MARIE-CLAUDE CREVON, CAROLINE LAVIGNAC, ALAIN PORTIER, FRÉDÉRIC LIOZON, and PIERRE GALANAUD
Production of Interleukin 6 by Granulomas of Giant Cell Arteritis 17

DONG-FENG CHEN, WALTER ENDRES, SOLTI A. MEYER, and WALTER STANGEL
A Polymerase Chain Reaction–Sequence-Specific Oligonucleotide Procedure for HLA Class II Typing Using Biotin- and Digoxigenin-Labeled Probes Simultaneously in Hybridization 25

JOHANNES PETER HAAS, AKINORI KIMURA, ADRIANE ANDREAS, MARTINA HOCHBERGER, ELISABETH KELLER, GÜNTHER BRÜNNLER, MARIA DE LA PAZ BETTINOTTI, CLAUDIA NEVINNY-STICKEL, BERNHARD HILDEBRANDT, GABRIELE SIERP, TAKEHIKO SASAZUKI, and EKKEHARD ALBERT
Polymorphism in the Upstream Regulatory Region of DQA1 Genes and DRB1, QAP, DQA1, and DQB1 Haplotypes in the German Population 31

MARIE ALLEN, MAGNHILD SANDBERG-WOLLHEIM, KARIN SJÖGREN, HENRY A. ERLICH, ULF PETTERSON, and ULF GYLLENSTEN
Association of Susceptibility to Multiple Sclerosis in Sweden with HLA Class II DRB1 and DQB1 Alleles 41

JOSÉ E. MEJÍA, ISABELLE JAHN, HENRI DE LA SALLE, and GEORGES HAUPTMANN
Human Factor B: Complete cDNA Sequence of the *BF*S* Allele 49

RAFAL PLOSKI, DAG E. UNDLIEN, ODD VINJE, ØYSTEIN FØRRE, ERIK THORSBY, and KJERSTI S. RØNNINGEN
Polymorphism of Human Major Histocompatibility Complex-Encoded Transporter Associated with Antigen Processing (TAP) Genes and Susceptibility to Juvenile Rheumatoid Arthritis 54

ANNE SPURKLAND, TOBIAS GEDDE-DAHL III, TORBJØRN HANSEN, FRODE VARTDAL, GUSTAV GAUDERNACK, and ERIK THORSBY
Heterogeneity of T Cells Specific for a Particular Peptide/HLA-DQ Complex 61

NINA K. GARLIE and DAVID D. ECKELS
Idiotype-Specific Autologous T-Cell Interactions Restricted by HLA-DR 69

Brief Communication
SUSANNE H. SPARHOLT, JØRGEN GEORGSEN, HANS O. MADSEN, ULRIK G. SVENDSEN, and CARSTEN SCHOU
Association Between HLA-DRB3*0101 and Immunoglobulin-E Responsiveness to *Bet v* I 76

Human Immunology is cited in *Biological Abstracts, Chemical Abstracts, Current Contents (Life Sciences), Excerpta Medica, Index Medicus,* and *CABS/Current Awareness in Biological Sciences.*

4 785HI XL 1308

Number 2, February 1994

HERBERT J. ZEH III, GERHARD H. LEDER, MICHAEL T. LOTZE, RUSSELL D. SALTER, MATT TECTOR, GYÖRGY STUBER, SUSANNE MODROW, and WALTER J. STORKUS
Flow-Cytometric Determination of Peptide–Class I Complex Formation: Identification of p53 Peptides That Bind to HLA-A2 79

MARILYN MARRARI and RENÉ J. DUQUESNOY
Progress Report on the ASHI/CAP Proficiency Survey Program in Histocompatibility Testing. I. HLA-A,B,C Typing, Antibody Screening, and Lymphocytotoxicity Crossmatching 87

RENÉ J. DUQUESNOY and MARILYN MARRARI
Progress Report on the ASHI/CAP Proficiency Survey Program in Histocompatibility Testing. II. HLA-DR,DQ Serologic Typing, Antibody Identification, and B-Cell Crossmatching 96

JUN GE and KRISTIAN HANNESTAD
A Cytotoxic Human Hybridoma Monoclonal Antibody (TrJ6) Defining an Epitope Expressed by HLA-DQ4 and -DQ5 106

WUMIN LI and GARY A. SPLITTER
Reduction of Class I Expression in a Bovine B-Lymphoblastoid Cell Line Is Locus Specific 113

MARIE-MARTHE TONGIO, Conference Chairwoman
Abstracts of the European Conference on Histocompatibility 1994 121

Author Index to the Abstracts 153

Number 3, March 1994

NOBUYUKI TANIGAKI, DORIANA FRUCI, ALBERTO CHERSI, GIULIANA FALASCA, ROBERTO TOSI, and RICHARD H. BUTLER
HLA-A2-Binding Peptides Cross-React Not Only Within the A2 Subgroup But Also with Other HLA-A-Locus Allelic Products 155

GARY C. STARLING, JOYCE A. WITKOWSKI, LINDA S. SPEERBRECHER, SUSAN K. McKINNEY, JOHN A. HANSEN, and S. YOON CHOO
A Novel *HLA-A*8001* Allele Identified in an African-American Population 163

YUMIKO SHINDO, SHIGEAKI OHNO, TAKUJI YAMAMOTO, SATOSHI NAKAMURA, and HIDETOSHI INOKO
Complete Association of the HLA-DRB1*04 and -DQB1*04 Alleles with Vogt–Koyanagi–Harada's Disease 169

DAWEI OU, LESLIE ANN MITCHELL, MARGARET HO, DIANE DÉCARIE, AUBREY J. TINGLE, GERALD T. NEPOM, MARTIAL LACROIX, and MAAN ZREIN
Analysis of Overlapping T- and B-Cell Antigenic Sites on Rubella Virus E1 Envelope Protein: Influence of HLA-DR4 Polymorphism on T-Cell Clonal Recognition 177

ROBERT ERIC RUIZ, BRUCE LEE HALL, CAROLYN DOYLE, and FRANCIS E. WARD
Baboon and Cotton-Top Tamarin B_2m cDNA Sequences and the Evolution of Primate β_2-Microglobulin 188

HIROSHI ONUMA, MASAO OTA, AKIRA SUGENOYA, and HIDETOSHI INOKO
Association of HLA-DPB1*0501 with Early-Onset Graves' Disease in Japanese 195

NDER K. MEHRA, ANNE G. M. BOUWENS, ALBERT NAIPAL,
RAJALINGAM, ZORANA GRUBIC, VEENA TANEJA, MARCEL G. J. TILANUS,
ARIUS J. GIPHART
an Indian HLA-DR2-, DR4-, and DR52-Related DR-DQ Genotypes Analyzed
Polymerase Chain Reaction Based Nonradioactive Oligonucleotide Typing:
ique Haplotypes and a Novel DR4 Subtype 202

KO NAKAYAMA, GO KAWAGUCHI, SACHIKO KARAKI, TAKESHI NAGAO,
NORI UCHIDA, KOUICHI KASHIWASE, TATSUYA AKAZA,
OMU NASUNO, and MASAFUMI TAKIGUCHI
ct of Single Amino Acid Substitution at Residue 167 of HLA-B51 on Binding
Antibodies and Recognition of T Cells 211

HIDE ISHIKAWA, KATSUSHI TOKUNAGA, LING LIN, TADASHI IMANISHI,
SHI SAITOU, AKINORI KIMURA, KOUICHI KASHIWASE, TATSUYA AKAZA,
TADOKORO, and TAKEO JUJI
uences of Four Splits of HLA-A10 Group: Implications for Serologic
ss-Reactivities and Their Evolution 220

ommunications
GE RUDY and ANDREW M. LEW
ited Polymorphism of the HLA-DQA2 Promoter and Identification of a
iant Octamer 225

TO BANNAI, KATSUSHI TOKUNAGA, LING LIN, MYOUNG HEE PARK,
KUWATA, KIYOSHI FUJISAWA, and TAKEO JUJI
New HLA-DR11 DRB1 Allele Found in a Korean 230

nber 4, April 1994

J. OUWEHAND, CARLA C. BAAN, LEONARD M. B. VAESSEN,
ET H. P. M. JUTTE, AGGIE H. M. N. BALK, EGBERT BOS,
S H. J. CLAAS, and WILLEM WEIMAR
racteristics of Graft-Infiltrating Lymphocytes After Human Heart
nsplantation: HLA Mismatches and the Cellular Immune Response
hin the Transplanted Heart 233

IK A. GJERTSEN, KNUT E. A. LUNDIN, LUDVIG M. SOLLID,
A. ERIKSON, and ERIK THORSBY
Cells Recognize a Peptide Derived from α-Gliadin Presented by the
iac Disease-Associated HLA-DQ (α1*0501,β1*0201) Heterodimer 243

TING FU and ROBERT W. KARR
A-DRα Chain Residues Located on the Outer Loops Are Involved in
npolymorphic and Polymorphic Antibody-Binding Epitopes 253

RT J. WARBURTON, MASANORI MATSUI, SARAH L. ROWLAND-JONES,
EEN C. GAMMON, GIL E. KATZENSTEIN, TAIYIN WEI, MICHAEL EDIDIN,
J. ZWEERINK, ANDREW J. McMICHAEL, and JEFFREY A. FRELINGER
tation of the α_2 Domain Disulfide Bridge of the Class I Molecule HLA-A*0201:
ct on Maturation and Peptide Presentation 261

N E. RODEY, JOHN F. NEYLAN, JOHN D. WHELCHEL,
ETH W. REVELS, and ROBERT A. BRAY
tope Specificity of HLA Class I Alloantibodies. I. Frequency Analysis of
tibodies to Private versus Public Specificities in Potential Transplant Recipients 272

PATRIZIO GIACOMINI, SABRINA TOSI, CHIARA MURGIA, FABIO NOBILI, SANCIA GAETANI, ROBERTO GAMBARI, MARIA RITA NICOTRA, GIUSEPPE SIMONI, FEDERICO MAGGI, and PIER GIORGIO NATALI
First-Trimester Human Trophoblast Is Class II Major Histocompatibility Complex $mRNA^{+}/Antigen^{-}$ 281

MARCELO A. FERNANDEZ-VIÑA, MICHELA FALCO, XIAOJIANG GAO, MARIE CERNA, YIPING SUN, EDUARDO RAIMONDI, and PETER STASTNY
DQA1*03 Subtypes Have Different Associations with DRB1 and DQB1 Alleles 290

Brief Communication
ANNE SPURKLAND, INGEBJØRG KNUTSEN, DAG E. UNDLIEN, and FRODE VARTDAL
No Association of Multiple Sclerosis to Alleles at the TAP2 Locus 299

F. CARL GRUMET and EMMANUEL MIGNOT
Letter to the Editor 302